



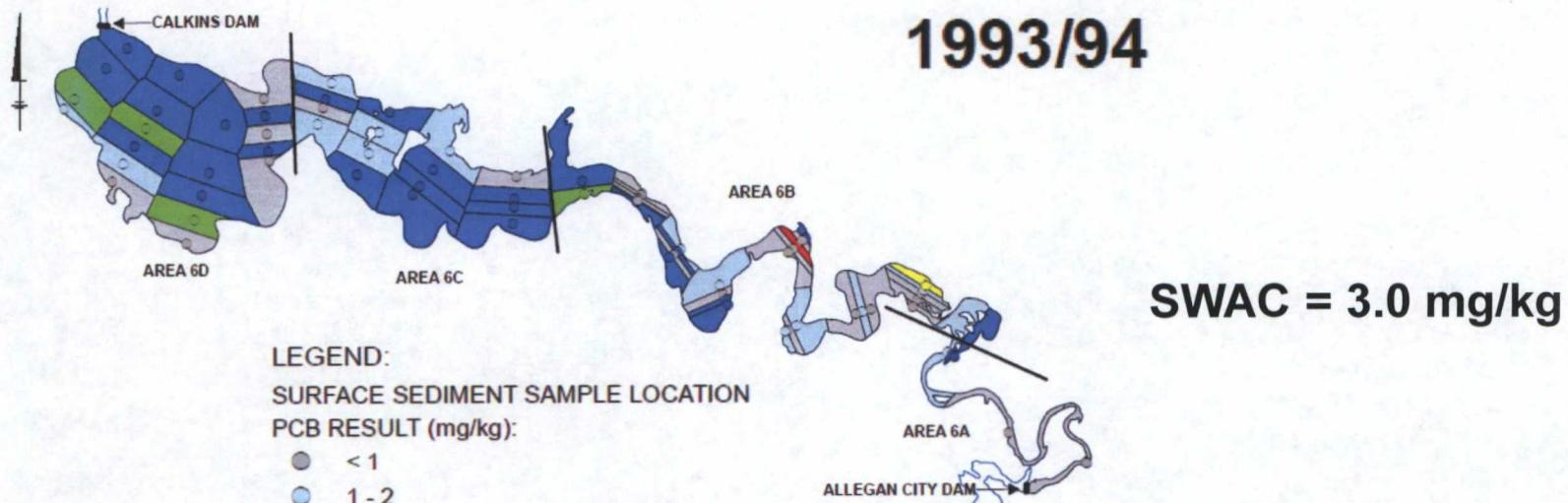
474020

# Lake Allegan Data Update

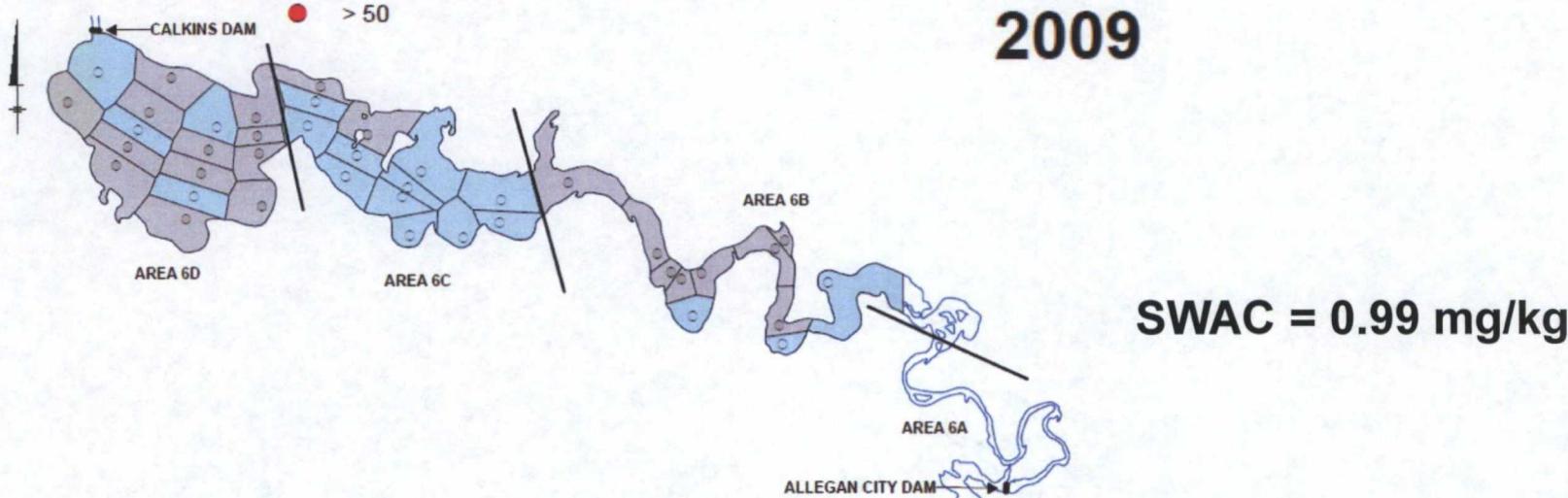
- Surface Sediment PCB data
- Fish Tissue PCB data
- Water Column PCB data

# Lake Allegan Surface Sediment PCB

**1993/94**

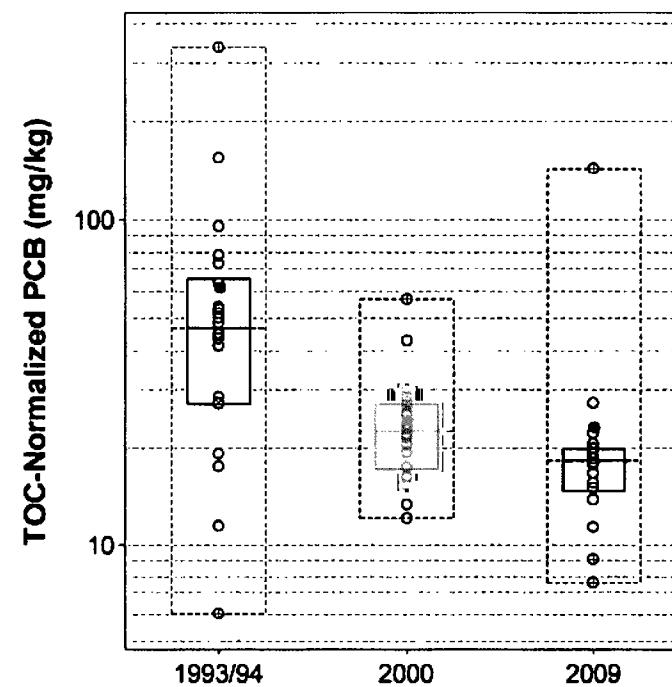
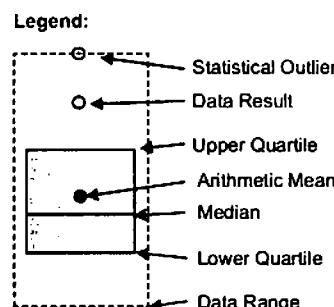
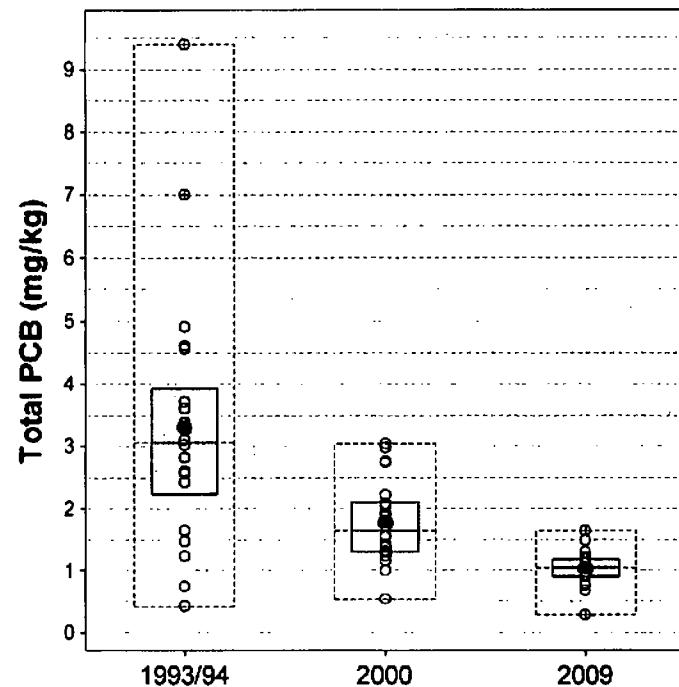


**2009**



# Lake Allegan Surface Sediment (0-2 inches)

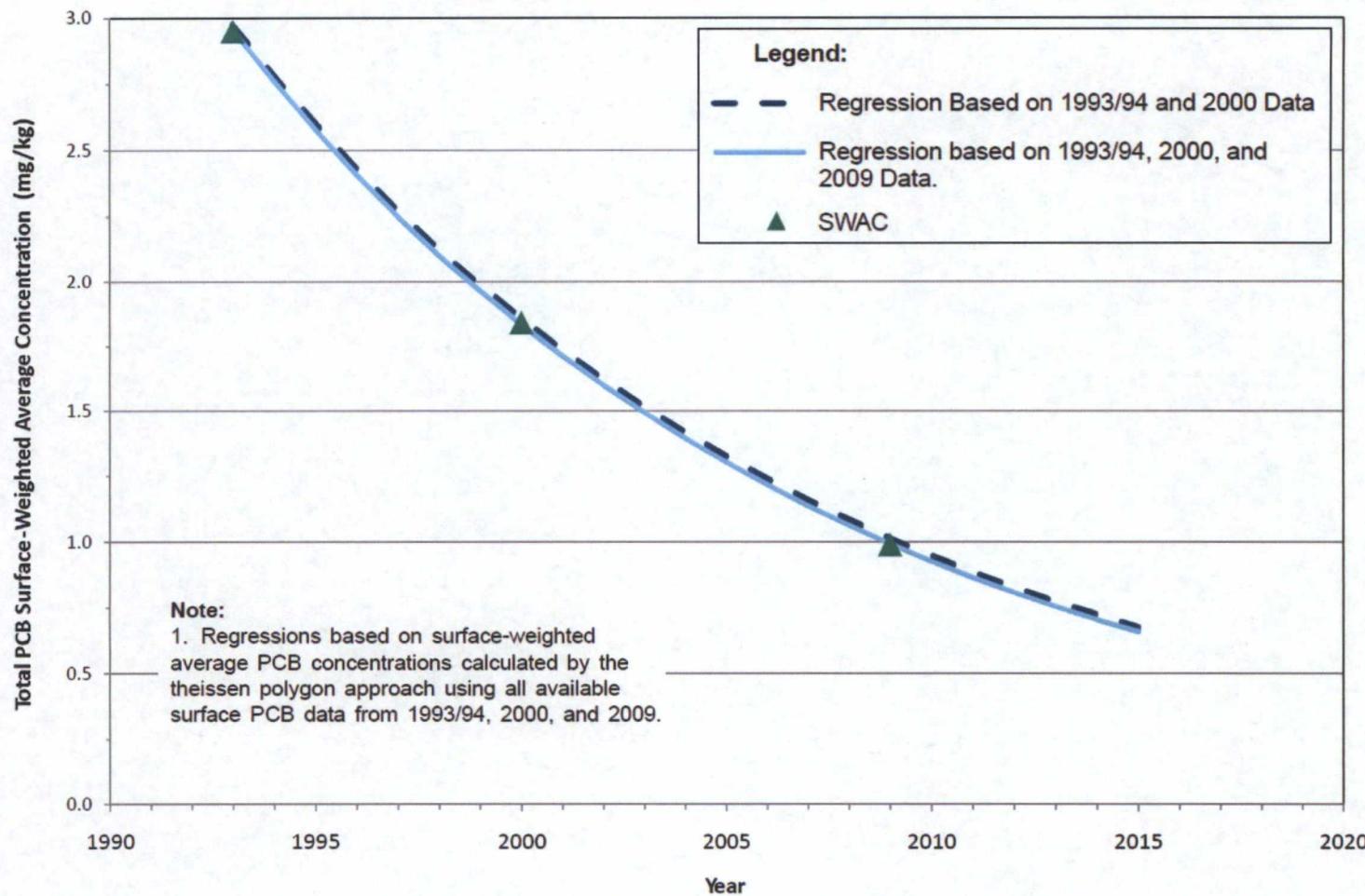
## PCB Data: 1993/94, 2000, 2009



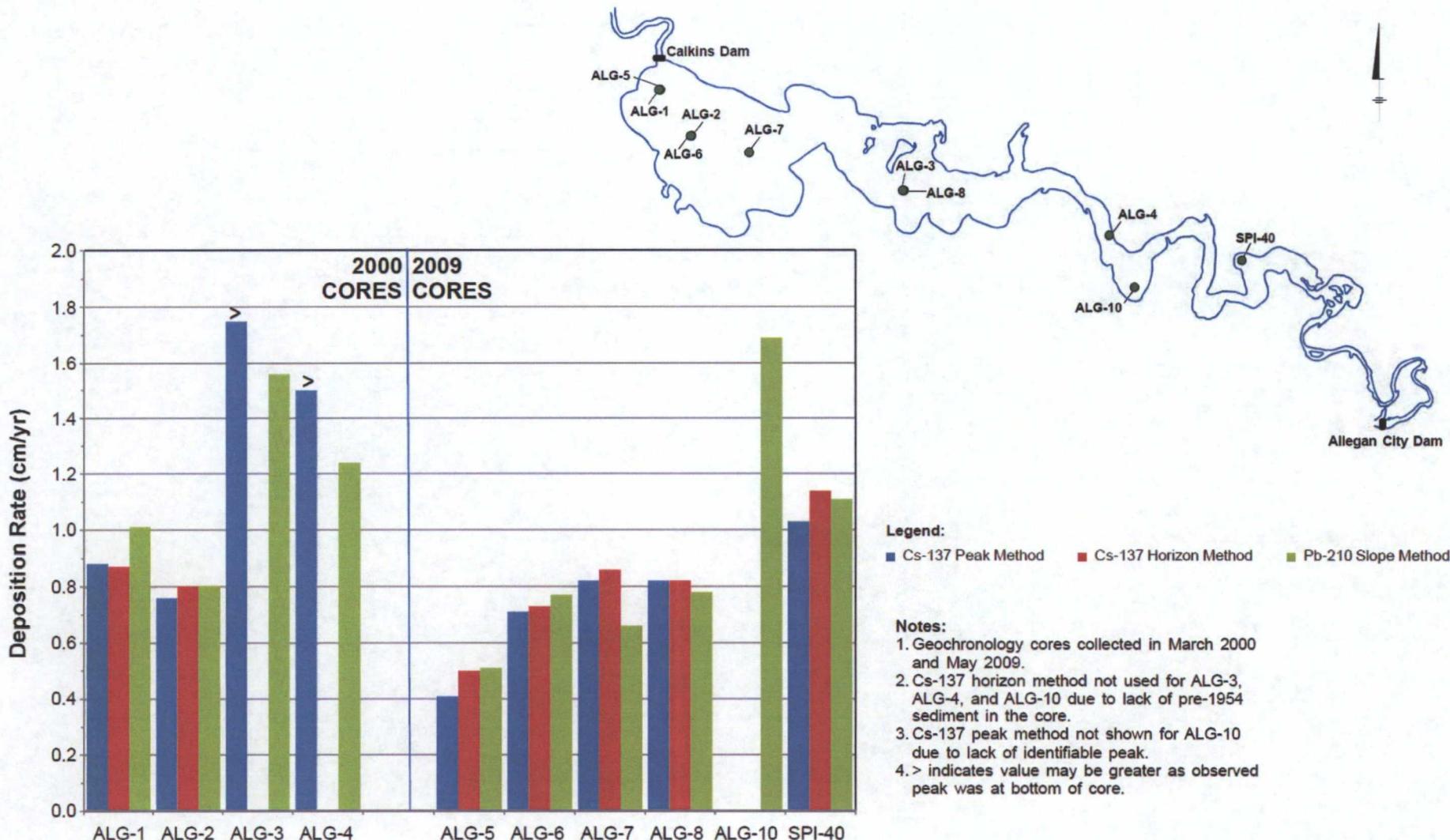
**Notes:**

- One-half the detection limit was used as a proxy concentration for non-detects.
- Parent/duplicate samples were averaged prior to analysis.
- All available surface sediment samples shown for all years.

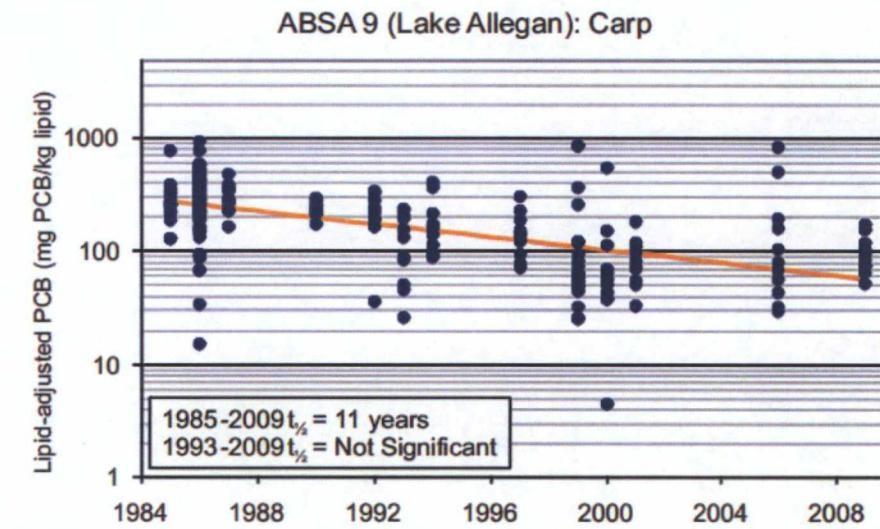
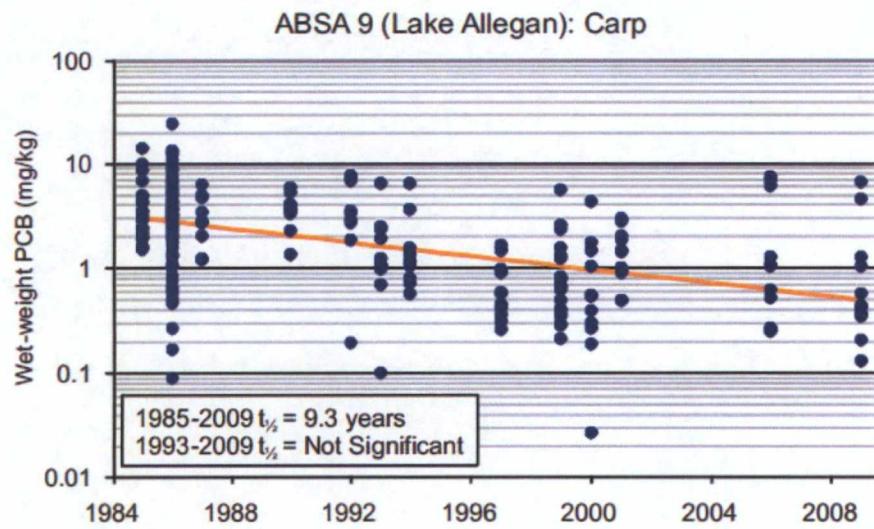
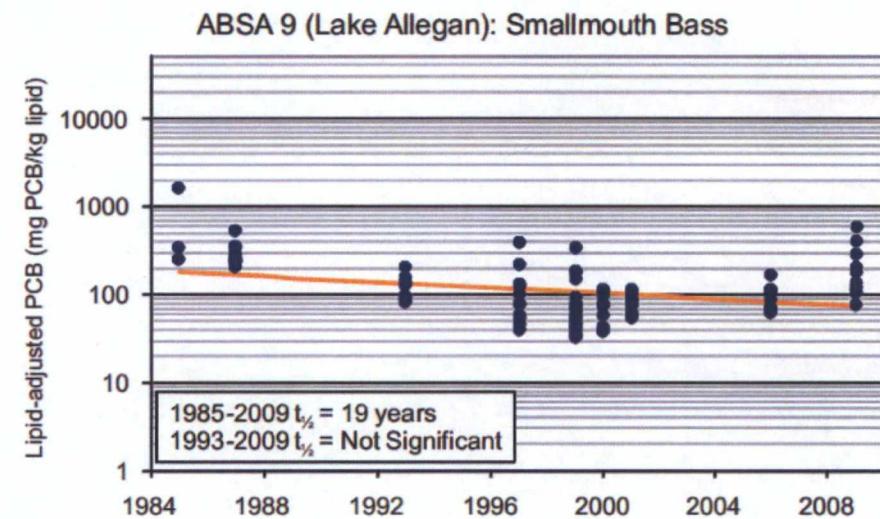
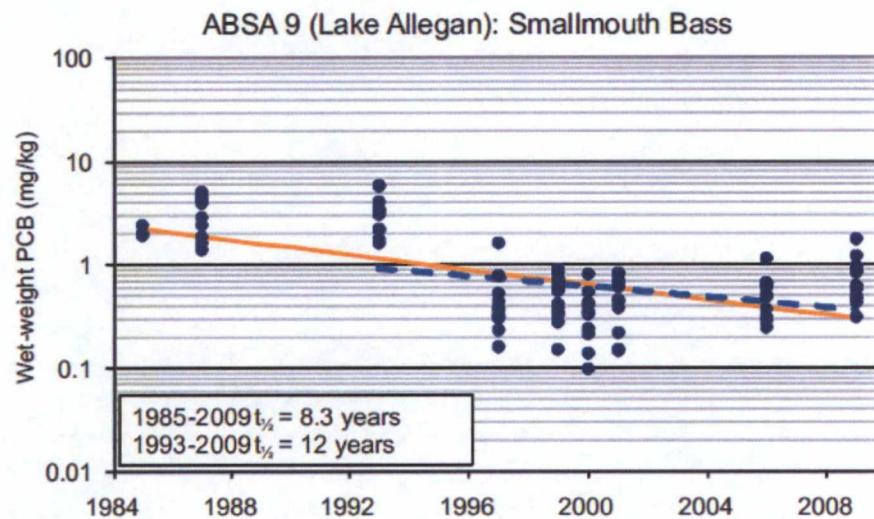
# Lake Allegan Surface Sediment (0-2 inches) SWAC Attenuation Trend



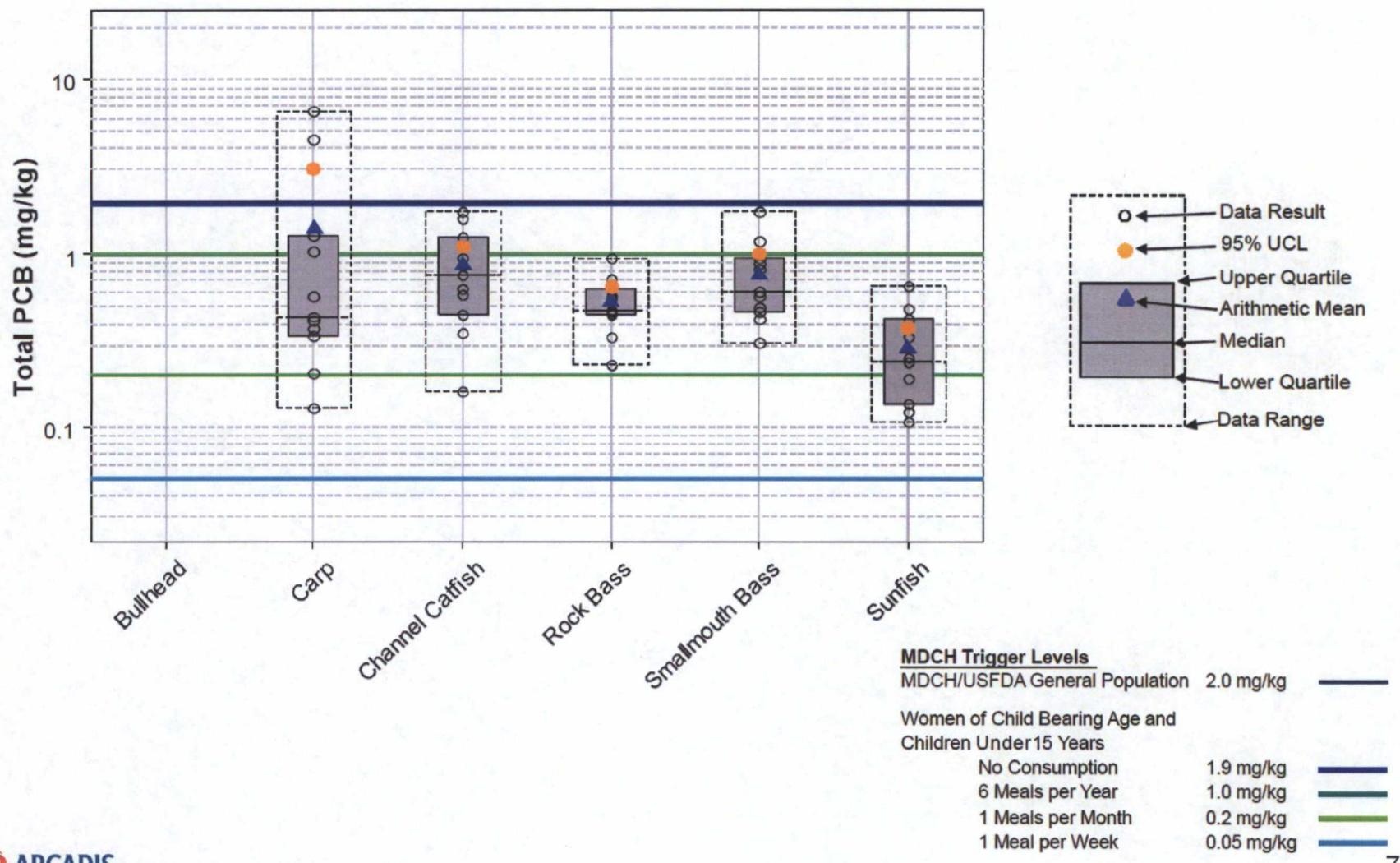
# Lake Allegan Sediment Deposition Rates



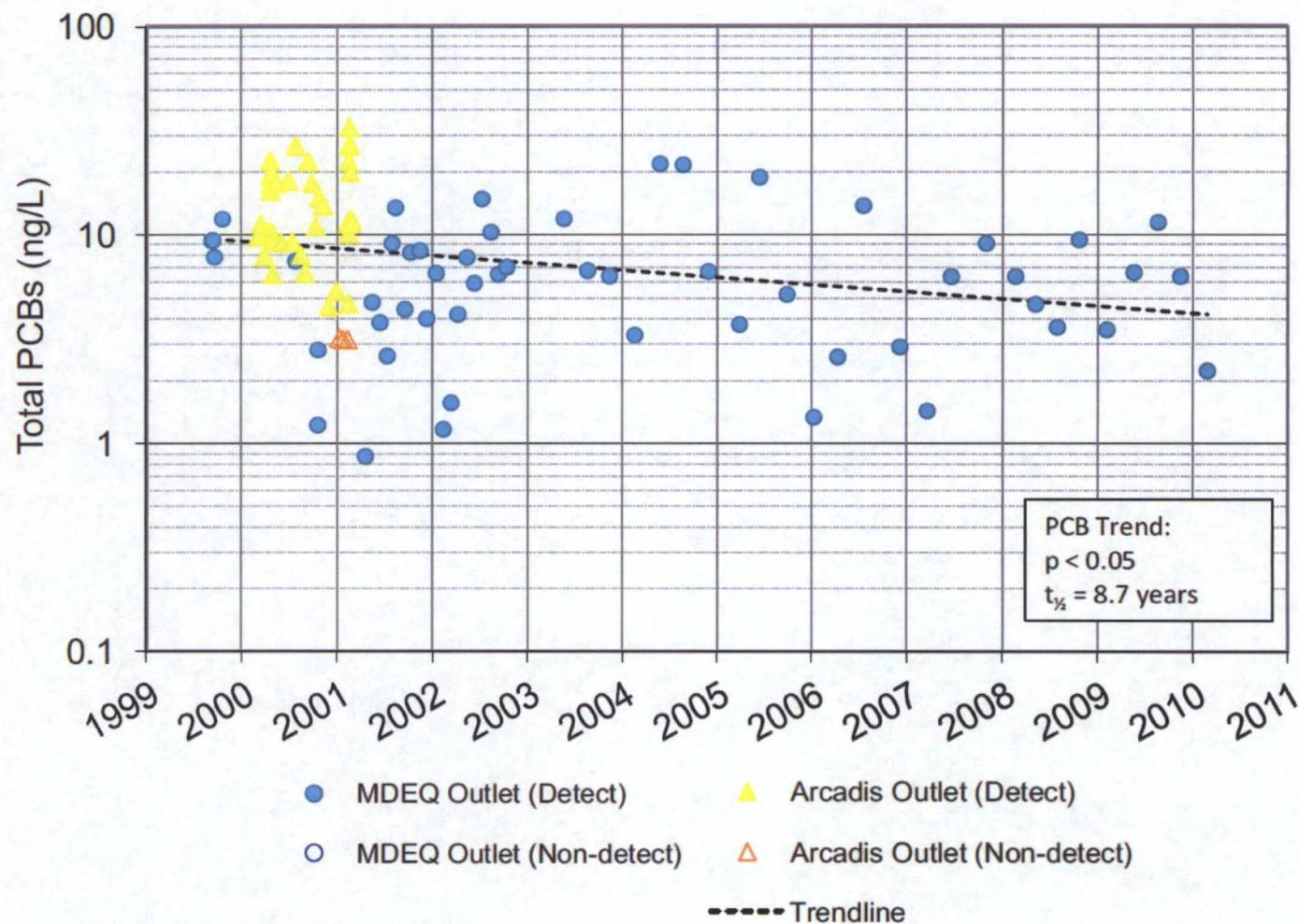
# Lake Allegan Fish PCB Trend Analysis



# Lake Allegan 2009 Fish Fillet PCB vs. Consumption Advisory Levels



# Lake Allegan Outlet Water Column PCB



# Lake Allegan Data Summary

- Multiple lines of evidence from the 2009 data confirm burial-driven recovery of surface sediment PCB since 1993/94, consistent with predicted trends from prior data
- Water column PCB trends over the decade 1999 to 2009 are similar to observed declines in surface sediment
- Historical rates of decline in carp and smallmouth bass PCB concentrations between 1985 and 2009 are noisy over time scales less than a decade
- Although recovery continues, ongoing transport from upstream is expected to sustain bioavailability of PCBs in the Lake at some level, until sources are reduced